

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/012248

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G03F7/20 H01L21/47

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G03F H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 03, 31 March 1999 (1999-03-31) & JP 10 340846 A (NIKON CORP), 22 December 1998 (1998-12-22) abstract & JP 10 340846 A (NIKON CORP.) 22 December 1998 (1998-12-22)	1-17
X	paragraphs '0026! - '0032!; figures 1-3	1-17
X	US 5 900 354 A (BATCHELDER ET AL) 4 May 1999 (1999-05-04) column 6, line 50 - column 7, line 16; figure 3; table 1	1-17



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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Date of the actual completion of the international search

25 July 2005

Date of mailing of the international search report

01/08/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 023 231 A (TABARELLI, WERNER W., DR) 4 February 1981 (1981-02-04) page 8, line 10 - page 9, line 19; claims 1,4-10; figures 3,4	1-17
X	ROTHSCHILD M ET AL: "Fluorine-an enabler in advanced photolithography" JOURNAL OF FLUORINE CHEMISTRY, ELSEVIER SEQUOIA, LAUSANNE, CH, vol. 122, no. 1, 1 July 2003 (2003-07-01), pages 3-10, XP004437021 ISSN: 0022-1139	1,2,17
A	Chapter 7	3-16
X	US 2001/043404 A1 (HATANO HITOSHI) 22 November 2001 (2001-11-22)	1,2,17
Y	paragraphs '0002!, '0012!, '0013!, '0038!, '0040!	3-16
A	US 6 236 493 B1 (SCHMIDT HELMUT ET AL) 22 May 2001 (2001-05-22) abstract	1-17
A	EP 0 967 513 A (DELEGATION GENERALE POUR L'ARMEMENT) 29 December 1999 (1999-12-29) paragraphs '0011!, '0029!, '0031!; claim 1	1-17
A	US 5 618-872 A (POHL ET AL) 8 April 1997 (1997-04-08) abstract	1-17
A	GB 627 719 A (EASTMAN KODAK COMPANY; GALE FRANCIS NADEAU; EDWIN ERNEST JELLEY) 15 August 1949 (1949-08-15) page 1, column 2, lines 50-66	1-17
E	WO 2005/006026 A (NIKON RESEARCH CORPORATION) 20 January 2005 (2005-01-20) paragraph '0027!	16
E	EP 1 522 894 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.) 13 April 2005 (2005-04-13) claims 1-10,16; figure 2	16
E	WO 2005/024325 A (TOKYO ELECTRON LTD.) 17 March 2005 (2005-03-17) claim 25	16
A	WO 00/06495 A (MINNESOTA MINING AND MANUFACTURING COMPANY; ARNEY, DAVID, S; WOOD, THO) 10 February 2000 (2000-02-10) page 1, lines 8-20; claims 1,14; examples 1-10	1,2,17
Y		3-16

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/EP2004/012248

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 10340846	A	22-12-1998	NONE	
US 5900354	A	04-05-1999	WO 9901797 A1	14-01-1999
EP 0023231	A	04-02-1981	EP 0023231 A1	04-02-1981
			AT 1462 T	15-08-1982
			DE 2963537 D1	07-10-1982
US 2001043404	A1	22-11-2001	JP 2001272604 A	05-10-2001
US 6236493	B1	22-05-2001	DE 19613645 A1	09-10-1997
			AT 204991 T	15-09-2001
			CN 1214773 A ,C	21-04-1999
			DE 59704453 D1	04-10-2001
			WO 9738333 A1	16-10-1997
			EP 0891565 A1	20-01-1999
			ES 2160343 T3	01-11-2001
			JP 2000508783 T	11-07-2000
EP 0967513	A	29-12-1999	FR 2780514 A1	31-12-1999
			EP 0967513 A1	29-12-1999
US 5618872	A	08-04-1997	DE 4219287 A1	16-12-1993
			AT 186061 T	15-11-1999
			DE 59309852 D1	02-12-1999
			WO 9325611 A1	23-12-1993
			EP 0644914 A1	29-03-1995
			JP 7507823 T	31-08-1995
			KR 263796 B1	16-08-2000
GB 627719	A	15-08-1949	NONE	
WO 2005006026	A	20-01-2005	WO 2005006026 A2	20-01-2005
EP 1522894	A	13-04-2005	JP 2005136374 A	26-05-2005
			EP 1522894 A2	13-04-2005
			US 2005074704 A1	07-04-2005
WO 2005024325	A	17-03-2005	US 2005046934 A1	03-03-2005
			WO 2005024325 A2	17-03-2005
WO 0006495	A	10-02-2000	WO 0006495 A1	10-02-2000
			AU 744976 B2	07-03-2002
			AU 2018699 A	21-02-2000
			AU 8761498 A	21-02-2000
			CA 2338917 A1	10-02-2000
			CA 2338920 A1	10-02-2000
			DE 69827166 D1	25-11-2004
			EP 1112228 A1	04-07-2001
			EP 1105430 A1	13-06-2001
			JP 2002521305 T	16-07-2002
			JP 2003521556 T	15-07-2003
			WO 0006622 A1	10-02-2000
			US 6329058 B1	11-12-2001